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CalESCO

CALIFORNIA EARTH SCIENCE CORPORATION

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September 8, 1975

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Contract NAS 2-7698
 MONTHLY PROGRESS REPORT NO. 27
 September 1975

Fault Tectonics and Earthquake Hazards in the Peninsular Ranges,
 Southern California, EREP Investigation 463

NASA-Lyndon B. Johnson Space Center
 Technical Support Procurement Branch
 Houston, Texas 77058

Attention: Mrs. Ruth Elder, Mail Stop BB631 (B9)

Dear Mrs. Elder:

California Earth Science Corporation (CalESCO) is pleased to submit its 27th Monthly Progress Report on the application of Skylab imagery to analysis of fault tectonics and earthquake hazards in the Peninsular Ranges, Southern California under NASA Contract No. NAS 2-7698.

Summary Outlook

The principal plans for the immediate future are to prepare the final reports on our analysis of Skylab data, and to prepare and analyze S192 images. Field studies of the area covered by the S192 images will be accomplished when the technical reports in preparation are completed.

Significant Progress

1. Work was continued on a technical report describing our analysis of the enhancement characteristics of pseudocolor transformations.
2. A talk entitled "Newly Detected Faults within the Peninsular Ranges of Southern California by Use of Spacecraft Imagery" was presented at the Southern California Section Meeting of the Association of Engineering Geologists.
3. Ratio images of all usable S192 channels of the Mojave test area were generated.
4. A paper describing work in the Peninsular Ranges entitled "Faulting in Basement Terrane, San Diego County" was submitted to the San Diego Association of Geologists Guidebook to be published in October 1975.

N75-33466

FAULT TECTONICS AND EARTHQUAKE HAZARDS IN THE PENINSULAR RANGES, SOUTHERN CALIFORNIA Monthly Progress Report, Sep.

1975

California Earth Science Corp.

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Expected Accomplishments, Current Month

1. Work will continue on a technical report describing our analysis of the enhancement characteristics of pseudocolor transformations.
2. Ratio images of S192 channels of the Mojave test area will be analyzed.

Travel Summary and Plans

No travel is planned during September.

Very truly yours,

CALIFORNIA EARTH SCIENCE CORP.


Paul M. Merfield
Principal Investigator

cc: NASA Scientific and Technical
Information Facility
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